

## STEEL STEAMER or MOTORSHIP.

27 DEC 1930

Received at London Office

State if Report has been sent on the Freeboard of the Vessel YesState if Report is sent on the Machinery of the Vessel Yes

Date of completion of report

22<sup>nd</sup> Dec. 1930

Port of

Søthensborg

No.

8165

Survey held at

Søthensborg

Date First Survey

23<sup>rd</sup> April 1930

Last Survey

16<sup>th</sup> December 1930

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Twin Screw Motor Ship

"NORDANVIK"

Machinery aft

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Full Scantling

Carrying Petroleum in Bulk

State Type of Erections

File &amp; Poop

TONNAGE under Tonnage Deck...

7476.88

CLASS +100.A.1.

State if with freeboard as condition of Class

No.

Built at

Søthensborg

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L 449.83

Launched

October 18<sup>th</sup> 1922

Total

Gross Tonnage

8232.89

Register Tonnage

4808.31

Breadth (greatest moulded)

B 59.00

Builders

A.B. Gotaverken

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 35.50

Owners

Norrköpings Rederiaktiebolag

1st Longitudinal Number (L x D)

1484 (metric) = 15969

Managers

V. Schreil

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D)

3949 (metric) = 42509

Residence Norrköping

## REGISTERED DIMENSIONS.

FEET.

Length

464.80

Framing Depth "d," at middle of length. See Sec. 3 (1d)

Proportions—Depth to Length—Uppermost continuous deck to top of keel

12.67

Breadth

59.32

Do. Long Bridge to top of keel

Depth

35.83

Draught Moulded

25.84

If surveyed while building, afloat, or in dry dock

Building afloat &amp; dry dock

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. m.m.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. m.m.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b>	825		<b>Bracket Floors, Frame</b>		
" " from $\frac{3}{8}$ length to Collision bulkhead	675		" " Reversed Frame		
" " in peaks	610		" " Vertical Struts		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>	2000 x 11	
Side			" " top Angles	90 90 12.5	
Frame Amidships, Angle, E or C	250 90 11		" " bottom Angles	90 100 14	
" " Extends up to	Upper Dk.		<b>Side Girders, No. each side and thickness</b>	2 @ 15	
Bottom			<b>Margin Plate depth (excl. of flange) and thickness</b>	13.5 T.T. flush	
Reversed Frame Amidships, Angle	280 90 12		" " Vertical Angle to Tank side		
" " Extends up to	Long Bridge		" " Bracket abaft $\frac{1}{4}$ len. from stem		
<b>Depth of Framing Girder</b>	250 + 280		" " Vertical Angle to Tank side		
<b>Frames in Uppermost Continuous 'tween Decks, Angle, C or E</b>			" " Bracket forward $\frac{1}{4}$ len. from stem		
" " Second 'tween Decks, Angle, C or E			" " Gussets, spacing and scantling		
" " Third " " "			" " abaft $\frac{1}{4}$ len. from stem		
<b>Framing in Peaks, Angle or C</b>	230 90 11		" " Gussets, spacing and scantling		
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>	22 @ 135 25 @ 150		" " forward $\frac{1}{4}$ len. from stem		
<b>State if Frame Joggled</b>	Bottom frames only, joggled		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	See plan	
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars</b>	Deep framing + Stingers as per App'd Plan		<b>INNER BOTTOM PLATING, in Motor Room</b>		
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b>	90 x 90 x 12.5 back bar in 1st hold + fwd deep tank, extra girders + increased shell		<b>Breadth and thickness of Middle Line Strake</b>	2980 x 13.5	
<b>SINGLE BOTTOM.</b>			<b>Thickness of remainder in Holds</b>	13.5	
<b>Floors, Depth and thickness at mid-line in Holds</b>			<b>Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. &amp; B. space and framing in Bankers and Boiler Room?</b>	Yes	
<b>Height of Brackets at side above base line at toe of frame</b>			<b>BEAMS.</b>		
<b>Middle Line Keelson, on Floors, Angles, C or E</b>			<b>Uppermost Continuous Deck, amidships in Wells, Angle, E or C</b>	200 90 10.5 centre	
" " Through Plate or Intercoastal Plate	1680 x 12.5		" " in way of Bridge, Angle, C or E	200 90 11.5 side	
" " Top Bulb Angles	230 90 13.5 double		<b>Spacing</b>	825	
" " Foundation Plate on Floors	150 150 13 double		<b>Second Deck, amidships, Angle, C or E</b>		
" " Flat Plate Keel Angles			<b>Spacing</b>		
<b>Side Keelsons, No. each side</b>	one each side in centre tank		<b>Third Deck, amidships, Angle, C or E</b>		
" " depth and thickness of Intercoastal Plate	1680 x 12.5		<b>Spacing</b>		
" " Top Bulb Angles	320 100 16 single		<b>Fourth Deck, amidships, Angle, C or E</b>		
" " Angles to shell	150 150 13		<b>Spacing</b>		
<b>DOUBLE BOTTOM, in Motor Room</b>			<b>Poop Deck, Angle, E or C</b>	230 90 11 and 12.5	
<b>Solid Floors, thickness and spacing</b>	11 @ 825		" " Spacing	200 75 11	
" " Are Frame and Reversed Frame joggled?	Frames only		" " Spacing	825 + 610	
<b>Bracket Floors, breadth and thickness at middle line</b>			<b>Bridge Deck, Angle, E or C</b>	150 75 10	
" " breadth and thickness at margin plate			" " Spacing	1030	
			<b>Forecastle Deck, Angle, E or C</b>	200 75 9	
			" " Spacing	675 + 610	



# PILLARS AND DECKS.

	INCHES IN SHIP. m.m.			Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. m.m.			Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.....</b>					Stringer Plate, breadth and thickness in way of Bridge .....				
"    in 'tween Decks, Size and Spacing.....					Thickness of Plating abreast Deck openings in way of Wells .....				
"    "    "    "    "    "					Thickness of Plating abreast Deck openings in way of Bridge .....				
"    in Holds    "    "					Thickness of Plating within line of openings...				
2 longitudinal " " " "					If Sheathed, material and thickness .....				
<b>Centre-Line Bulkheads</b>					<b>Third Deck.</b>				
Stiffeners and Spacing.....	Channels	220	9	80	Stringer Plate, breadth and thickness.....				
Plating, thickness of .....		11	10	13	If Plated, state thickness.....				
<b>STRINGERS AND DECKS.</b>					<b>Fourth Deck.</b>				
<b>Uppermost Continuous Deck.</b>					Stringer Plate, breadth and thickness.....				
Stringer Plate, breadth and thickness in Wells		16	10	22	If Plated, state thickness .....				
"    "    "    "    in way of Bridge					<b>Poop Deck.</b>				
"    Angle in Wells .....	150	150	20		Stringer Plate, breadth and thickness .....	9.0			
Thickness of Plating abreast Deck openings in way of Wells .....	20				Plating, Sheathing, material and thickness ...	6.5	2 1/2	00	
Thickness of Plating abreast Deck openings in way of Bridge .....	✓				<b>Bridge Deck. (Open sides &amp; ends)</b>				
Thickness of Plating within line of openings...	12				Stringer Plate, breadth and thickness.....	1500	6.5		
If Sheathed, material and thickness .....	✓				Plating, Sheathing, material and thickness ...	6.5			
Horizontal girders in Wing Tanks					<b>Forecastle Deck.</b>				
<b>Second Deck.</b>					Stringer Plate, breadth and thickness.....	9.0			
Stringer Plate, breadth and thickness in Wells...	1000	10			Plating, Sheathing, material and thickness ...	9.0	none		

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled? <i>sides only.</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
FLAT PLATE KEEL .....	20.30	25.5	20.0	20.0		double	25	90.6	3	28	113.	double straps
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes .....		17.5	17.5-15	14+16.5		"	22	90.6	3	22	100	"
BILGE PLATING, No. of Strakes .....		17.5	17-15	14.5-16.5		"	"	"	"	"	"	"
SIDE PLATING, No. of Strakes .....		16.5	13-12	13-12		"	"	"	4	"	90	overlaps
UPPER DECK, Sheer-strake in Wells.....	14.80	25.0	14-12	16-12		"	25	"	3	25	108	double straps
UPPER DECK, Sheer-strake in Bridge ...												
STRAKE BELOW Sheer-strake in Wells.....	16.30	19.5	13.5-12	13-12		"	22	90.6	4	25	100	overlaps
STRAKE BELOW Sheer-strake in Bridge ...												
POOP SIDE PLATING .....				10		single	⊗		2	22	80	"
BRIDGE SIDE PLATING ...												
FOREC'TLE SIDE PLATING		10.5				single	⊗		2	22	80	"

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel—</b>	
Extending to Upper Deck (Sec. 3 c)	14
"    Deck next below	✓
As per Rule	7

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar .....</b>		Flat plate, Keel.		
<b>STEM .....</b>	Roller bar	255x70	Witkowitz Bergbau und Eisenhütten	
<b>STERN FRAME</b> { Propeller Post .....	Cast	See plan	A.B. Lindholm Motala	
{ Rudder .....				
<b>RUDDER—A x D.....</b>		Single-balanced rudder		
<b>Speed of Vessel.....</b>		11 knots.		
<b>RUDDER</b> mainpiece at head ...		325		
"    heel ...		245	A.B. Lindholm Motala	
"    how constructed .....		Brill, Amos & Sons & Keys on		
"    double or single plate		Single		
"    coupling, vertical or		horizontal		
"    horizontal.....				

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D, Upper tween decks</b>					
"    "    Second    "					
"    "    Third    "					
"    "    Holds .....	13-9	220x9x80x12.5	e 810	3 high girders	
<b>COLLISION</b> " (in Hold) .....	11.5-6.5	150x75x9 L	610	3 high girders	
<b>AFTER PEAK</b> " " .....	12.5-6.5	130x75x9	e 760	3 high girders	

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Gutehoffnungshütte, Oberhausen; Vereinigte Stahlwerke, Hoerder Verein; Société Anonyme d'Acier et de Fer, Société Anonyme d'Ougne-Marchaye; Witkowitz Bergbau und Eisenhütten Gesellschaft in Witkowitz
	Has the Steel been tested as required by the Rules? Yes







GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

The vessel is similar to M.S. Fosna. Messrs Caledon S.S. Co 340 and Sotaviken No 456.

The following plans are now forwarded:—

Midship Section  
Profile & Deck plans.  
Shell Plan  
Fore Peak & Deep Tank fwd.  
Double Bottom & Engine Seats  
Skin Frame & Rudder  
Shaft Bracket  
Boss Castings.  
Aft Peak & Engine Room  
Oil fuel Bunkers.  
Main Quadrant.  
Yeller  
Steering gear

Also Midship Section & Profile as built and forging & Casting reports.

Particulars of **Drop Test** of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	48.1.23; M.B.; 4162; 8.5.30.
2nd "	48.0.20; M.B.; 4161; 8.5.30.
3rd "	47.3.10; M.B.; 4160; 8.5.30.

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop 95.7 ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 36.2 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 dk. (stl.)

Official No. 7690 ; Signal Letters K.H.J.P. Is bottom of Vessel coated with cement part. if not give particulars of composition Cement in F.W. D.B. tank, fore peak & E.R. D.B. coffers.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank, w.B.	25.0	113
Double bottom, under Engines and Boilers,			After peak tank, OF = 212; or w.B.	28.0	241
Double bottom, if under Engines only, F.W. 91, L.O. 27, OF = 135.	65.0	278	Deep tank aft, OF = 417	21.65	474
Double bottom, if under Boilers only,			Deep tank, forward, OF = 411	28.8	467
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

Total length of D.B. = 65 ft.

Order for Special Survey No. 171

Date 18<sup>th</sup> June, 1929

Dates of Surveys held while building

1930.  
April 23. 28. 30. May 9. 14. 22. 27. 30. June 2. 7. 13. 18. 18. July 1. 3. 23. 26. 28. 28. August 5. 6. 12. 15. 25. 26. 26. 30. 30.  
Sept. 9. 15. 18. 22. 25. 26. 26. 27. 27. Oct. 1. 1. 2. 3. 7. 8. 9. 9. 13. 14. 17. 18. 20. 20. 24. 28. Nov. 1. 6. 7. 10. 11. 12. 12. 18. 14. 24.  
17. 17. 17. 18. 19. 19. 20. 20. 21. 24. 24. 24. 25. 26. 26. 27. 27. 30. December 1. 3. 3. 5. 8. 7. 9. 10. 16. 17.

Total No. of Visits 93